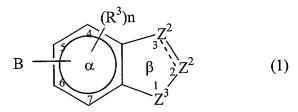
Claims

1. A compound of the formula:



and the pharmaceutically acceptable salts thereof, or a pharmaceutical composition thereof, wherein

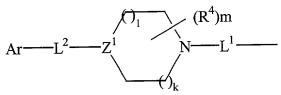
represents a single or double bond;

B is $-W_i$ -COX_jY wherein Y is COR² or an isostere thereof and R² is hydrogen or a noninterfering substituent, each of W and X is a spacer of 2-6Å, and each of i and j is independently 0 or 1;

each R³ is independently a noninterfering substituent, where n is 0-3;

 Z^3 is NR^7 or O; wherein R^7 is H or a noninterfering substituent;

one Z^2 is CA or CR^8A and the other is CR^1 , CR^1_2 , NR^6 or N wherein each R^1 , R^6 and R^8 is independently hydrogen or noninterfering substituent; wherein A is:



such that Z^1 is CR^5 or N wherein R^5 is hydrogen or a noninterfering substituent; each of 1 and k is an integer from 0-2 wherein the sum of 1 and k is 0-3;

Ar is an aryl group substituted with 0-5 noninterfering substituents, wherein two noninterfering substituents can form a fused ring;

each R⁴ is independently a noninterfering substituent where m is 0-4;

each of L1 and L2 is a linker; and

the distance between the atom of Ar linked to L^2 and the center of the β ring is 4.5-24Å.

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2. The compound of claim 1 wherein B is -COXjCOR², and wherein R² is H, or is straight or branched chain alkyl, alkenyl, alkynyl, aryl, arylalkyl, heteroalkyl, heteroaryl, or heteroarylalkyl, each optionally substituted with halo, alkyl, heteroalkyl, SR, OR, NR₂, OCOR, NRCOR, NRCONR₂, NRSO₂R, NRSO₂NR₂, OCONR₂, CN, COOR, CONR₂, COR, or R₃Si wherein each R is independently H, alkyl, alkenyl or aryl or the heteroatom-containing forms thereof, or

wherein R² is OR, NR₂, SR, NRCONR₂, OCONR₂, or NRSO₂NR₂, wherein each R is independently H, alkyl, alkenyl or aryl or the heteroatom-containing forms thereof, and wherein two R attached to the same atom may form a 3-8 member ring and wherein said ring may further be substituted by alkyl, alkenyl, alkynyl, aryl, arylalkyl, heteroalkyl, heteroaryl, heteroarylalkyl, each optionally substituted with halo, SR, OR, NR₂, OCOR, NRCOR, NRCONR₂, NRSO₂R, NRSO₂NR₂, OCONR₂, or R₃Si wherein each R is independently H, alkyl, alkenyl or aryl or the heteroatom-containing forms thereof wherein two R attached to the same atom may form a 3-8 member ring, optionally substituted as above defined; and

X, if present, is alkylene.

- 3. The compound of claim 1 wherein Y is an isostere of COR^2 .
- 4. The compound of claim 3 wherein Y is tetrazole; 1,2,3-triazole; 1,2,4-triazole; or imidazole.
 - 5. The compound of claim 1 wherein each of i and j is 0.
 - 6. The compound of claim 2 wherein j is 0.
 - 7. The compound of claim 1 wherein Z^3 is NR^7 .
- 8. The compound of claim 7 wherein R⁷ is H or is optionally substituted alkyl, alkenyl, alkynyl, aryl, arylalkyl, acyl, aroyl, heteroaryl, heteroalkyl, heteroalkenyl, heteroalkynyl, heteroalkylaryl, or is SOR, SO₂R, RCO, COOR, alkyl-COR, SO₃R, CONR₂, SO₂NR₂, CN, CF₃, NR₂, OR, alkyl-SR, alkyl-SOR, alkyl-SO₂R, alkyl-OCOR,

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alkyl-COOR, alkyl-CN, alkyl-CONR₂, or R₃Si, wherein each R is independently H, alkyl, alkenyl or aryl or heteroforms thereof.

- 9. The compound of claim 8 wherein R^7 is H, or is optionally substituted alkyl, or acyl.
 - 10. The compound of claim 1 wherein both k and l are 1.
 - 11. The compound of claim 1 wherein L^1 is CO, CHOH or CH_2 .
 - 12. The compound of claim 11 wherein L^1 is CO.
 - 13. The compound of claim 1 wherein Z^1 is N.
- 14. The compound of claim 1 wherein Z¹ is CR⁵ wherein R⁵ is H, OR, NR₂, SR or halo, wherein each R is independently H, alkyl, alkenyl or aryl or the heteroatom-containing forms thereof,
- 15. The compound of claim 1 wherein L² is alkylene (1-4C) or alkenylene (1-4C) optionally substituted with a moiety selected from the group consisting of alkyl, alkenyl, alkynyl, aryl, arylalkyl, acyl, aroyl, heteroaryl, heteroalkyl, heteroalkenyl, heteroalkynyl, heteroalkylaryl, NH-aroyl, halo, OR, NR₂, SR, SOR, SO₂R, OCOR, NRCOR, NRCONR₂, NRCOOR, OCONR₂, RCO, COOR, alkyl-OOR, SO₃R, CONR₂, SO₂NR₂, NRSO₂NR₂, CN, CF₃, R₃Si, and NO₂, wherein each R is independently H, alkyl, alkenyl or aryl or heteroforms thereof, and wherein two substituents on L² can be joined to form a non-aromatic saturated or unsaturated ring that includes 0-3 heteroatoms which are O, S and/or N and which contains 3 to 8 members or said two substituents can be joined to form a carbonyl moiety or an oxime, oximeether, oximeester or ketal of said carbonyl moiety.
 - 16. The compound of claim 15 wherein L² is unsubstituted alkylene.

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- 17. The compound of claim 15 wherein L^2 is unsubstituted methylene, methylene substituted with alkyl, or -CH=.
- 18. The compound of claim 1 wherein Ar is optionally substituted with 0-5 substituents selected from the group consisting of alkyl, alkenyl, alkynyl, aryl, arylalkyl, acyl, aroyl, heteroaryl, heteroalkyl, heteroalkenyl, heteroalkynyl, heteroalkylaryl, NH-aroyl, halo, OR, NR₂, SR, SOR, SO₂R, OCOR, NRCOR, NRCONR₂, NRCOOR, OCONR₂, RCO, COOR, alkyl-OOR, SO₃R, CONR₂, SO₂NR₂, NRSO₂NR₂, CN, CF₃, R₃Si, and NO₂, wherein each R is independently H, alkyl, alkenyl or aryl or heteroforms thereof, and wherein two of said optional substituents on adjacent positions can be joined to form a fused, optionally substituted aromatic or nonaromatic, saturated or unsaturated ring which contains 3-8 members.
 - 19. The compound of claim 18 wherein Ar is optionally substituted phenyl.
- 20. The compound of claim 19 wherein said optional substitution is by halo, OR, or alkyl.
- 21. The compound of claim 20 wherein said phenyl is unsubstituted or has a single substituent.
- 22. The compound of claim 1 wherein R⁴ is selected from the group consisting of alkyl, alkenyl, alkynyl, aryl, arylalkyl, acyl, aroyl, heteroaryl, heteroalkyl, heteroalkynyl, heteroalkylaryl, NH-aroyl, halo, OR, NR₂, SR, SOR, SO₂R, OCOR, NRCOR, NRCONR₂, NRCOOR, OCONR₂, RCO, COOR, alkyl-OOR, SO₃R, CONR₂, SO₂NR₂, NRSO₂NR₂, CN, CF₃, R₃Si, and NO₂, wherein each R is independently H, alkyl, alkenyl or aryl or heteroforms thereof and two of R⁴ on adjacent positions can be joined to form a fused, optionally substituted aromatic or nonaromatic, saturated or unsaturated ring which contains 3-8 members, or R⁴ is =O or an oxime, oximeether, oximeester or ketal thereof.
 - 23. The compound of claim 22 wherein each R⁴ is halo, OR, or alkyl.

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- 24. The compound of claim 23 wherein m is 0, 1, or 2.
- 25. The compound of claim 24 wherein m is 2 and both R^4 are alkyl.
- 26. The compound of claim 1 wherein each R³ is halo, alkyl, heteroalkyl, OCOR, OR, NRCOR, SR, or NR₂, wherein R is H, alkyl, aryl, or heteroforms thereof.
 - 27. The compound of claim 26 wherein R³ is halo or alkoxy.
 - 28. The compound of claim 27 wherein n is 0, 1 or 2.
- 29. The compound of claim 1 wherein L^1 is coupled to the β ring at the 5-position.
 - 30. The compound of claim 1 wherein Z^2 at position 3 is CA or CH^1A .
 - 31. The compound of claim 30 wherein the Z^2 at position 2 is CR^1 or CR^1_2 .
- 32. The compound of claim 31 wherein R¹ is hydrogen, or is alkyl, alkenyl, alkynyl, aryl, arylalkyl, acyl, aroyl, heteroaryl, heteroalkyl, heteroalkenyl, heteroalkynyl, heteroalkylaryl, NH-aroyl, halo, OR, NR₂, SR, SOR, SO₂R, OCOR, NRCOR, NRCONR₂, NRCOOR, OCONR₂, RCO, COOR, alkyl-OOR, SO₃R, CONR₂, SO₂NR₂, NRSO₂NR₂, CN, CF₃, R₃Si, and NO₂, wherein each R is independently H, alkyl, alkenyl or aryl or heteroforms thereof and two of R¹ can be joined to form a fused, optionally substituted aromatic or nonaromatic, saturated or unsaturated ring which contains 3-8 members.
- 33. The compound of claim 32 wherein each R¹ is selected from the group consisting of H, alkyl, acyl, aryl, arylalkyl, heteroalkyl, heteroaryl, halo, OR, NR₂, SR, NRCOR, alkyl-OOR, RCO, COOR, and CN, wherein each R is independently H, alkyl, or aryl or heteroforms thereof.

- 34. The compound of claim 30 wherein Z^2 at position 2 is N or NR^6 .
- 35. The compound of claim 34 wherein R⁶ is H, or alkyl, alkenyl, alkynyl, aryl, arylalkyl, acyl, aroyl, heteroaryl, heteroalkyl, heteroalkenyl, heteroalkynyl, heteroalkylaryl, or is SOR, SO₂R, RCO, COOR, alkyl-COR, SO₃R, CONR₂, SO₂NR₂, CN, CF₃, or R₃Si wherein each R is independently H, alkyl, alkenyl or aryl or heteroforms thereof.
 - 36. The compound of claim 1 wherein represents a double bond.
- 37. The compound of claim 1 wherein the distance between the atom on Ar linked to L^2 and the center of the β ring is 7.5-11Å.
- 38. The compound of claim 1 wherein the compound of formula (1) is selected from the group consisting of:

List 1A

List -1B

List -1C

List-1D

List -1E

List -1F

List-1J

List-2A

List -2B

List -2C

List-2D

List -2E

List -2F

List-2J

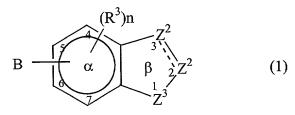
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39. A pharmaceutical composition for treating conditions characterized by enhanced p38-α activity which composition comprises

a therapeutically effective amount of a compound of the formula



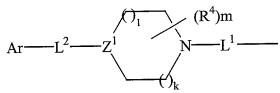
and the pharmaceutically acceptable salts thereof, or a pharmaceutical composition thereof, wherein

represents a single or double bond;

B is $-W_i$ -COX_jY wherein Y is COR² or an isostere thereof and R² is hydrogen or a noninterfering substituent, each of W and X is a spacer of 2-6Å, and each of i and j is independently 0 or 1;

each R^3 is independently a noninterfering substituent, where n is 0-3; Z^3 is NR^7 or O; wherein R^7 is H or a noninterfering substituent; one Z^2 is CA or CR^8A and the other is CR^1 , CR^1_2 , NR^6 or N wherein each R^1 , R^6

and R⁸ is independently hydrogen or noninterfering substituent; wherein A is:



such that Z^1 is CR^5 or N wherein R^5 is hydrogen or a noninterfering substituent; each of 1 and k is an integer from 0-2 wherein the sum of 1 and k is 0-3;

Ar is an aryl group substituted with 0-5 noninterfering substituents, wherein two noninterfering substituents can form a fused ring;

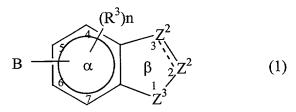
each R^4 is independently a noninterfering substituent where m is 0-4; each of L^1 and L^2 is a linker; and

the distance between the atom of Ar linked to L^2 and the center of the β ring is 4.5-24Å.

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- 40. The composition of claim 39 which further contains an additional therapeutic agent.
- 41. The composition of claim 40 wherein said additional therapeutic agent is a corticosteroid, a monoclonal antibody, or an inhibitor of cell division.
- 42. A method to treat a condition mediated by p38- α kinase comprising administering to a subject in need of such treatment a compound of the formula:



and the pharmaceutically acceptable salts thereof, or a pharmaceutical composition thereof, wherein

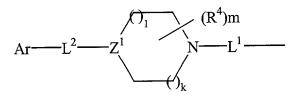
represents a single or double bond;

B is $-W_i$ -COX_jY wherein Y is COR² or an isostere thereof and R² is hydrogen or a noninterfering substituent, each of W and X is a spacer of 2-6Å, and each of i and j is independently 0 or 1;

each R³ is independently a noninterfering substituent, where n is 0-3;

Z³ is NR⁷ or O; wherein R⁷ is H or a noninterfering substituent;

one Z^2 is CA or CR^8A and the other is CR^1 , CR^1_2 , NR^6 or N wherein each R^1 , R^6 and R^8 is independently hydrogen or noninterfering substituent; wherein A is:



such that Z^1 is CR^5 or N wherein R^5 is hydrogen or a noninterfering substituent; each of 1 and k is an integer from 0-2 wherein the sum of 1 and k is 0-3;

Ar is an aryl group substituted with 0-5 noninterfering substituents, wherein two noninterfering substituents can form a fused ring;

each R⁴ is independently a noninterfering substituent where m is 0-4;

each of L1 and L2 is a linker; and

the distance between the atom of Ar linked to L^2 and the center of the β ring is 4.5-24Å.

- 43. The method of claim 42 wherein said condition is a proinflammation response.
- 44. The method of claim 43 wherein said proinflammation response is multiple sclerosis, IBD, rheumatoid arthritis, rheumatoid spondylitis, osteoarthritis, gouty arthritis, other arthritic conditions, sepsis, septic shock, endotoxic shock, Gram-negative sepsis, toxic shock syndrome, asthma, adult respiratory distress syndrome, stroke, reperfusion injury, CNS injury, psoriasis, restenosis, cerebral malaria, chronic pulmonary inflammatory disease, silicosis, pulmonary sarcosis, a bone resorption disease, graft-versus-host reaction, Crohn's Disease, ulcerative colitis, Alzheimer's or pyresis.